THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:-

1. A method of tuning a cardiac prosthetic pacing device, the method comprising the steps of:

(a) monitoring the flow output from the heart;

(b) adjusting the timing of pacing events by said cardiac prosthetic pacing device so as to optimise the flow from the heart under operational conditions.

2. A method as claimed in claim 1 wherein said step (a) further comprises the step of monitoring the flow utilising a transcutaneous continuous wave Doppler signal directed at the heart.

3. A method as claimed in claim 1 wherein said method is repeated under a number of different operational conditions for a patient including walking and/or running.

4. A method as claimed in claim 1 wherein said method is repeated under a number of different pharmalogical conditions for a patient.

5. An apparatus for tuning a cardiac prosthetic pacing device, the apparatus including:

monitoring means for non invasively monitoring the flow of blood out of the heart;

control means for controlling the operation of the cardiac prosthetic pacing device including variation of the pacing rate;

processing means interconnected to said monitoring means and said control means, said processing means instructing said control means to vary the pacing rate of said cardiac prosthetic pacing device and monitor the corresponding measurement of said monitoring means.

6. An apparatus as claimed in claim 5 wherein said monitoring means includes a continuous wave Doppler sensor device for emitting and receiving a CW- Doppler signal at a patients heart.

7. A method for tuning a cardiac prosthetic pacing device substantially as hereinbefore described with reference to the accompanying drawings.

8. An apparatus for tuning a cardiac prosthetic pacing device substantially as hereinbefore described with reference to the accompanying drawings.